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## ABSTRACT

The general purpose of the occupational analysis is to provide workable, basic information dealing with the many and varied duties performed in the billing and bookkeeping machine operating occupation. The analysis was written in general terms due to the diversity in bookkeeping machines on the market, increasing number and variation of the tasks performed by the machines, and the varied program goals of schools teaching bookkeeping machines operation. The document opens with a brief introduction followed by a job description. The bulk of the document is presented in table form. Eight duties are broken down into a number of tasks and for each task a two-page table is presented, showing on the first page: tools, equipment, materials, objects acted upon; performance knowledge (related also to decisions, cues and errors); safety--hazard; and on the second page: science; math--number systems; and communications (performance modes, examples, and skills and concepts). The duties include: preparation, operation, and maintenance of the machines and machine area; preparation and maintenance of documents, files, and records; and operating various related office machines. A list of mental and physical attitudes needed for maximum functioning is appended. (BP)

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Occupational Analysis

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BILLING AND BOOKKEEPING  
MACHINE OPERATOR

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Instructional Materials Laboratory  
Trade and Industrial Education  
The Ohio State University

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AN ANALYSIS OF THE BILLING AND BOOKKEEPING MACHINE OPERATING OCCUPATION

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Occupational Analysis  
E.P.D.A. Sub Project 73402  
June 1, 1973 to December 30, 1974  
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## FOREWORD

The occupational analysis project was conducted by The Instructional Materials Laboratory, Trade and Industrial Education, The Ohio State University in conjunction with the State Department of Education, Division of Vocational Education pursuant to a grant from the U.S. Office of Education.

The Occupational Analysis project was proposed and conducted to train vocational educators in the techniques of making a comprehensive occupational analysis. Instructors were selected from Agriculture, Business, Distributive, Home Economics and Trade and Industrial Education to gain experience in developing analysis documents for sixty-one different occupations. Representatives from Business, Industry, Medicine, and Education were involved with the vocational instructors in conducting the analysis process.

The project was conducted in three phases. Phase one involved the planning and development of the project strategies. The analysis process was based on sound principles of learning and behavior. Phase two was the identification, selection and orientation of all participants. The training and workshop sessions constituted the third phase. Two-week workshops were held during which teams of vocational instructors conducted an analysis of the occupations in which they had employment experience. The instructors were assisted by both occupational consultants and subject matter specialists.

The project resulted in producing one hundred two trained vocational instructors capable of conducting and assisting in a comprehensive analysis of various occupations. Occupational analysis data were generated for sixty-one occupations. The analysis included a statement of the various tasks performed in each occupation. For each task the following items were identified: tools and equipment; procedural knowledge; safety knowledge; concepts and skills of mathematics, science and communication needed for successful performance in the occupation. The analysis data provided a basis for generating instructional materials, course outlines, student performance objectives, criterion measures as well as identifying specific supporting skills and knowledge in the academic subject areas.

## PREFACE

In writing an occupational analysis for the bookkeeping-machine operator, the following variables were considered:

- \*There is much diversity in bookkeeping-machines on the market with machines ranging from a relatively simple, mechanically programmed type to highly sophisticated machines as the Burroughs L 4000-Accounting Computer, the MCR 299 Electronic Accounting System, and the Singer 5800 Visible Record Accounting System. Prices for various machines may range from a modest \$1,000 to \$25,000 (or more) depending on what function the machine is designed to perform; and/or the number of its components or modules.
- \*There has been an increasing number of accounting tasks being performed by the various machines and there is considerable variation in the detail and clarity to which any given machine may perform.
- \*Schools teaching bookkeeping-machine operations have varied program goals. Some may train highly qualified operators able to work in payroll purchasing, sales, sales analysis, aging, and other accounting functions. Other schools may teach that machines do the same work manual systems do, only neater, faster, and more accurately.

In light of the above considerations it became increasingly difficult to write a highly definitive task analysis. It was decided that the analysis would be written in general terms if it was to be written within the time limit and in light of the many variables listed.

Every effort was made to limit all considerations to those tasks closely related to the operation of the bookkeeping-machine. It is sincerely hoped that this analysis will serve as a starting point from which programs unique to different schools and budgets may be developed.

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## JOB DESCRIPTION

A bookkeeping-machine operator performs the following duties: prepares for processing, various business papers that are generated by a firm; operates various peripheral machines such as adding and calculating machines; cleans the machine and performs minor preventive maintenance functions. The operator also maintains accurate files of business documents and bookkeeping related records such as ledgers, journals, individual earnings record; and furnishes information and/or reports to authorized persons in verbal or written form. The operator assists in the performance of various related clerical and bookkeeping functions in an office.

Duty A Maintaining the Machine in Proper Working Order

- 1 Read section (s) of machine's manual related to maintaining the machine
- 2 Maintain proper machine environment (humidity, temperature, power source)
- 3 Perform preventive maintenance

## (TASK STATEMENT) READ SECTION(S) OF MACHINE'S MANUAL RELATED TO MAINTAINING THE MACHINE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual Firm's policies	Read section (s) of machine's manual related to maintaining the machine Follow all directions consistent with firm's policies on machine maintenance Monitor service agreement/contract	<u>ERRORS</u> Damage to machine and/or modular components Loss of service agreement/contract Loss of employment
	<u>DECISIONS</u>	<u>CUES</u>

TASK STATEMENT	READ SECTION(S) OF MACHINE'S MANUAL RELATED TO MAINTAINING THE MACHINE
SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	
COMMUNICATIONS	
PERFORMANCE MODES	EXAMPLES
Reading	Machine's manual
Speaking	Asking questions about task
SKILLS/CONCEPTS	
	Comprehension, detail/inference, definition, terminology, etymology/general vocabulary, appropriate diction, enunciation, clarity of expression, logic, usage

(TASK STATEMENT) MAINTAIN PROPER MACHINE ENVIRONMENT (HUMIDITY, TEMPERATURE, POWER SOURCE)

14

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>Auxiliary power source may be necessary from some machines</p> <p>Hygrometer may be necessary</p> <p>Thermometer may be necessary</p> <p>Alarms <u>connected</u> to the hygrometer, thermometer and power sources may be necessary</p>	<p>Read section(s) of machine's manual related to the environment necessary for the machine's safety and its proper functioning</p> <p>Monitor humidity and temperature factors, and availability of auxiliary powers, in the machine's environment, if appropriate; report variance</p> <p>Adjust environment in accord with predetermined policies, if appropriate</p> <p>Unplug line after turning it off, if required</p>	<p>Loss of revenue</p> <p>Damage to machine and "down time", Loss of machine</p> <p>Loss of valuable records</p>
	<p><u>DECISIONS</u></p> <p>Determine if environment is satisfactory for maintaining the machine's safety and proper functioning</p> <p>Determine if auxiliary power and/or environmental assistance is functioning properly</p> <p>Determine if variances should be reported</p>	<p><u>CUES</u></p> <p>Machine's environment will vary from normal; and alarm equipped environment controls will sound alarm(s)</p> <p>Loss of revenue</p>

ASK STATEMENT) MAINTAIN PROPER MACHINE ENVIRONMENT (HUMIDITY, TEMPERATURE, POWER SOURCE)

SCIENCE	MATH - NUMBER SYSTEMS	COMMUNICATIONS	SKILLS/CONCEPTS
Temperature and humidity critical to machines effectiveness A constant power source may be necessary for the continuous efficient operation of some machines Behavioral science (see index)	Coding - must understand how to recognize unacceptable readings on charts and/or gauges related to maintaining proper machine environment: hygrometer, thermometer and availability of auxiliary power		
PERFORMANCE MODES	EXAMPLES		
Viewing Speaking Reading Listening	Interpreting gauges related to environmental factors Reporting environmental problem Machine's manual Emerging instruction		Visual analysis, memory, describing, logic, detail/inference, color discrimination, recognition of symbols codes and emblems Terminology/general vocabulary, appropriate diction, implying, enunciation, clarity of expression, logic, usage Comprehension, detail/inference, description of mechanism, definition, terminology Auditory discrimination, discrimination facts from non-facts, concentration, logic, work decinition, noise discrimination

**(TASK STATEMENT) PERFORM PREVENTIVE MAINTENANCE**

<b>TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON</b>	<b>PERFORMANCE KNOWLEDGE</b>	<b>SAFETY - HAZARD</b>	<b>ERRORS</b>
<p>Tools (all must be nonmagnetizable, if available)</p> <p>Set of screwdrivers, rubber handled</p> <p>Set of small wrenches - metric may be necessary</p> <p>Small tray to hold small tools and or parts</p> <p>Proper oil</p> <p>Material</p> <p>Ribbon</p>	<p>Read section(s) in machine's manual related to preventive maintenance.</p> <p>Follow directions</p> <p>Understand firm's policies related to handling preventive maintenance.</p> <p>Follow directions</p> <p>Understand manufacturer's service agreement/contract</p> <p>Turn machine off</p> <p>Unplug the machine</p> <p>Perform examination and preventive maintenance on the machine</p> <p>Report usual and necessary findings to proper person</p> <p>Clean the machine according to directions</p> <p>Change the ribbon, if appropriate</p> <p>Cover and/or protect the machine when not in use</p>	<p>Turn the machine off</p> <p>Unplug the machine. Be sure area is dry</p> <p>Use proper tools for purposes they are designed</p> <p>Results of unsafe performance: injury and electrical shock</p>	<p>Machine "down time" may result in loss of machine</p>
			<p align="center"><b>CUES</b></p> <p><b>DECISIONS</b></p> <p>Determine if machine is scheduled for preventive maintenance and/or may need it</p> <p>Determine if machine should be turned off and/or disconnected from power source</p>

SCIENCE	MATH - NUMBER SYSTEMS												
Behavioral Science (see index)	<p>Positive rational numbers            Property of comparison ( =, &lt;, &gt; )            Linear (screw and nut size)</p>												
	<p>COMMUNICATIONS</p> <table border="1"> <thead> <tr> <th>PERFORMANCE MODES</th><th>EXAMPLES</th><th>SKILLS/CONCEPTS</th></tr> </thead> <tbody> <tr> <td>Speaking</td><td>Asking question about task</td><td>Terminology/general vocabulary, appropriate diction, enunciation, clarity of expression, logic, usage</td></tr> <tr> <td>Reading</td><td>Machine's manual on task</td><td>Comprehension, detail/inference, definition, terminology</td></tr> <tr> <td>Writing</td><td>Report on having done task</td><td>Penmanship, spelling, memo format, clarity of expression, usage, reports-progress</td></tr> </tbody> </table>	PERFORMANCE MODES	EXAMPLES	SKILLS/CONCEPTS	Speaking	Asking question about task	Terminology/general vocabulary, appropriate diction, enunciation, clarity of expression, logic, usage	Reading	Machine's manual on task	Comprehension, detail/inference, definition, terminology	Writing	Report on having done task	Penmanship, spelling, memo format, clarity of expression, usage, reports-progress
PERFORMANCE MODES	EXAMPLES	SKILLS/CONCEPTS											
Speaking	Asking question about task	Terminology/general vocabulary, appropriate diction, enunciation, clarity of expression, logic, usage											
Reading	Machine's manual on task	Comprehension, detail/inference, definition, terminology											
Writing	Report on having done task	Penmanship, spelling, memo format, clarity of expression, usage, reports-progress											

Duty B   Preparing Source Documents for Processing/Operations

- 1   Gather and sort source documents by types
- 2   Inspect source documents for completeness and/or validity
- 3   Add source documents by type and compare totals with such other totals,  
where possible to insure accuracy and/or balancing

(TASK STATEMENT) GATHER AND SORT SOURCE DOCUMENTS BY TYPES

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>Source documents necessary for the operations to be performed, such as:</p> <ul style="list-style-type: none"> <li>Payroll records</li> <li>Invoices</li> <li>Checks received as accounts</li> <li>Bills</li> <li>Purchase orders</li> <li>Deposit slips (Banking)</li> </ul> <p>Sorter</p>	<p>Locate source documents</p> <p>Bring source documents to sorting area</p> <p>Sort source documents into logically appropriate divisions and order necessary for processing</p> <p>Dispose, appropriately, of source documents not needed for the current operations</p>	<p>Loss of revenue</p> <p>Errors in firm's books</p> <p>Legal problems</p> <p>Loss of time</p>
DECISIONS	CUES	ERRORS
	<p>The schedule of work to be performed by the machine</p> <p>Content and nature of source documents</p>	<p>Loss of revenue</p> <p>Errors in firm's books</p> <p>Legal problems</p> <p>Loss of time</p>

SCIENCE	<p>Behavioral science (see index)</p> <p>Use of numbers without calculations-ordering [source documents]</p>	MATH – NUMBER SYSTEMS
COMMUNICATIONS	<p><u>EXAMPLES</u></p> <p>Determining type of source documents sorted</p> <p>Hand sorting checks (banking) by color, shape, size as well as detail</p>	<p><u>SKILLS/CONCEPTS</u></p> <p>Comprehension, definition, terminology, detail/inference</p> <p>Visual analysis, memory, description, logic, detail/inference, color discrimination, recognition of symbols, codes, and emblems</p>
PERFORMANCE MODES	<p>Reading</p> <p>Viewing</p>	20

(TASK STATEMENT) INSPECT SOURCE DOCUMENTS FOR COMPLETENESS AND/OR VALIDITY

2.1

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>Firm's policies on inspection of source documents</p> <p>Adding listing machine or calculator</p>	<p>Read firm's policies related to task</p> <p>Examine source documents, while sorting them</p> <p>Compare source documents to firm's standards for completeness</p> <p>Dispose of source document that does not meet firm's standards</p>	<p>Loss in revenue</p> <p>Error in firm's books</p> <p>Loss of employment</p> <p>Legal problems</p>
	<p><u>CUES</u></p> <p>Items have parts missing and/or are completed incorrectly</p> <p>Completed source document may be forged</p>	<p><u>DECISIONS</u></p> <p>Decide if source document is to be questioned as to its completeness and/or validity</p> <p>Decide if source document meets firm's standards</p> <p>Decide to dispose of source document in accord with firm's policies or to allow it to continue on in the bookkeeping/accounting process</p>

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	<p>Estimation - Comparison Compare various amounts [dollars, numbers on items, weights, etc.] on source documents with reasonable amounts in light of experience and/or firm's policies</p> <p>Fundamental operations (calculations)</p> <p>Addition</p> <p>Subtraction</p> <p>Multiplication</p> <p>Basic arithmetic skills and concepts [finding a percent of a number and what percent one number is of another]</p> <p>Use of computing devices and mechanical aids</p>
	COMMUNICATIONS
<u>PERFORMANCE MODES</u>	<p><u>EXAMPLES</u></p> <p>Reading</p> <p>Viewing</p> <p>Examining source documents</p> <p>Comparison of appearance of source document with standards</p>

ADD SOURCE DOCUMENTS BY TYPE AND COMPARE TOTALS WITH SUCH OTHER TOTALS, WHERE POSSIBLE, TO  
 (TASK STATEMENT) INSURE ACCURACY AND/OR BALANCING

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TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
- Adding - listing machine or calculator	<p>Run totals ("run tapes") on source documents, by types or sub-division</p> <p>Compare totals with other totals where possible to insure accuracy. Find any errors that result from this comparison and correct them</p> <p><b>Throw out task, continue inspection of source documents</b></p>	
		<p><u>ERRORS</u></p> <p>Loss of time          Error in firm's books          Loss of revenue</p>

DECISIONS

Decide the order totals on source documents should be run  
 Decide if errors(s) exist; and how it or they may be corrected  
 Decide if errors have been corrected

CUES

Total(s) of tape(s) ran on divisions and/or types of source documents equal related totals

ERRORS

Loss of time  
 Error in firm's books  
 Loss of revenue

ADD SOURCE DOCUMENTS BY TYPE AND COMPARE TOTALS WITH SUCH OTHER TOTALS, WHERE POSSIBLE, TO  
**INSURE ACCURACY AND/OR BALANCING**

ADD SOURCE DOCUMENTS BY TYPE AND COMPARE TOTALS WITH SUCH OTHER TOTALS, WHERE POSSIBLE, TO

<u>task statement</u>	<u>science</u>	<u>math - number systems</u>	<u>communications</u>
Behavioral Science (see index)	<p>Fundamental operations (calculations)</p> <p>Addition</p> <p>Subtraction</p> <p>Division and multiplication (for locating and testing for transpositions)</p> <p>Use of computing devices and mechanical aids</p>		
<u>performance modes</u>	<u>examples</u>	<u>skills/concepts</u>	
Reading	Amounts and monitoring the validity of the sorting process	Comprehension, detail/inference, definition, terminology	
Viewing	Visual verification of validity of sorting process	Visual analysis, memory, describing, logic, detail/inference, color discrimination, recognition of symbols, codes, and emblems	

Duty C Preparing the Machine Area for Operations

- 1 Read section (s) of machine's manual related to preparing the machine area for operations
- 2 Level the machine before starting it
- 3 Bring files ("cans") of records (ledgers, journals, etc.) to the work area for posting, journalizing, and/or other processing
- 4 Bring source documents (invoices, checks, etc.) to the work area for use in posting, journalizing, and/or other processing

25.

## (TASK STATEMENT) READ SECTION(S) OF MACHINE'S MANUAL RELATED TO PREPARING THE MACHINE AREA FOR OPERATIONS

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual	<p>Read section(s), of machine's manual related to preparing the machine's area for operations</p> <p>Prepare machine area for operations, in accord with machine's manual</p>	<p><u>ERRORS</u></p> <p>Improper operation of machine Errors in firm's books Machine "down time",</p>
	<p><u>DECISIONS</u></p> <p>Determine what needs to be done to machine's area to prepare it for machine's operations</p>	<p><u>CUES</u></p> <p>Machine's manual Machine has not been run before by the operator</p>

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	
COMMUNICATIONS	
PERFORMANCE MODES	<u>EXAMPLES</u> Reading
	<u>SKILLS/CONCEPTS</u> Comprehension, detail/inference, description of mechanism, definition terminology

## (TASK STATEMENT) LEVEL THE MACHINE BEFORE STARTING IT

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual	Read section(s) in machine's manual related to task Level the machine	ERRORS
	DECISIONS	Accuracy of operations are jeopardized Damage to machine "down time", Instructions for leveling the machine The machine is, or is not, level leveled

**TASK STATEMENT) LEVEL THE MACHINE BEFORE STARTING IT**

<b>SCIENCE</b>	<b>MATH – NUMBER SYSTEMS</b>
Behavioral Science (see index)	
<b>COMMUNICATIONS</b>	
<b>PERFORMANCE MODES</b>	<b>EXAMPLES</b>
Reading	Manual
Viewing	Machine

(TASK STATEMENT) BRING FILES ("CANS") OF RECORDS (LEDGERS, JOURNALS, ETC.) TO THE WORK AREA FOR POSTING, JOURNALIZING, AND/OR OTHER PROCESSING

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Necessary files ("can") of records needed for operations	Locate proper files Transport files to work area	
		<p><u>ERRORS</u></p> <p>Errors in firm's books Loss of time Loss of revenue</p>
		<p><u>DECISIONS</u></p> <p>Decide which files of ledgers, for example, are needed</p> <p>Type of processing scheduled</p>

BRING FILES ("CAN") OF RECORDS (LEDGERS, JOURNALS, ETC.) TO THE WORK AREA FOR POSTING, JOURNALIZING,  
**TASK STATEMENT** AND/OR OTHER PROCESSING

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	
<b>COMMUNICATIONS</b>	
PERFORMANCE MODES	EXAMPLES
Viewing	Files

BRING SOURCE DOCUMENTS (INVOICES, CHECKS, ETC.) TO THE WORK AREA FOR USE IN POSTING, JOURNALIZING,  
(TASK STATEMENT) AND/OR OTHER PROCESSING

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Source documents which have been prepared for operations by the bookkeeping machine	Locate source document items ready for processing Take items to area of machine	
		<p><u>DECISIONS</u></p> <p>Determine which source document items are needed at the machine Determine that source documents items needed are at machines</p> <p><u>CUES</u></p> <p>Schedule of work to be performed is being followed Operator understands the nature of the operations to be performed</p> <p><u>ERRORS</u></p> <p>Generation of erroneous information by the operator Loss of time and increased errors</p>

<u>ASK STATEMENT</u>	<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)		
<u>COMMUNICATIONS</u>		
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<u>SKILLS/CONCEPTS</u>
Viewing	Source documents	Visual analysis, logic, detail/ inference

#### Duty D Prepare the Machine for Operations

1. Read section (s) of machine's manual related to preparing the machine for operations
2. Clear any figures in item/posting counter, if needed
3. Load the machine with proper form (s)
4. Clear the machine of any totals, or other information, not needed on the current operations
5. Place proper date in the machine
6. Verify and insure that the operational mode of the machine is consistent with current

(TASK STATEMENT) READ SECTION(S) OF MACHINE'S MANUAL RELATED TO PREPARING THE MACHINE FOR OPERATIONS

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual	<p>Read section(s) of machine's manual related to preparing the machine for operations</p> <p>Prepare the machine for operations in accord with machine's manual i.e., uncover machine, plug machine into power source, turn on machine</p>	
		<p><u>ERRORS</u></p> <p>Machine 'down time'</p> <p>Errors in firm's books</p>

DECISIONS

Decide what needs to be done to prepare the machine for operations

CUES

Manual instructions

**ASK STATEMENT) READ SECTION(S) OF MACHINE'S MANUAL RELATED TO PREPARING THE MACHINE FOR OPERATIONS**

<b>SCIENCE</b>	<b>MATH – NUMBER SYSTEMS</b>
Behavioral Science (see index)	Use of computing devices and mechanical aids
<b>COMMUNICATIONS</b>	<b>SKILLS/CONCEPTS</b>
<b>PERFORMANCE MODES</b>	<b>EXAMPLES</b>
Reading	Section (s) of machine's manual related to preparing machine for operations

## (TASK STATEMENT) CLEAR ANY FIGURES IN ITEM/POSTING COUNTER, IF NEEDED

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual Tools necessary to clear any figures in item/posting counter	Read section(s) in machine's manual related to counting items processed during and/or by operations Set machine to count	<u>ERRORS</u> Error in and/or an incomplete, count of items Loss of time Error in operations
	<u>CUES</u> Firm requires a count of items Machine is designed to count	<u>DECISIONS</u> Decide if pending operations necessitates the counting of any items Decide if machine is capable of counting items Decide how to set machine for counting

**TASK STATEMENT**      CLEAR ANY FIGURES IN ITEM/POSTING COUNTER, IF NEEDED

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	Use of computing devices or mechanical aids
COMMUNICATIONS	
PERFORMANCE MODES	EXAMPLES
Reading	Manual

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SKILLS/CONCEPTS  
Comprehension, detail/inference,  
description of mechanism, definition,  
terminology

## (TASK STATEMENT) LOAD THE MACHINE WITH PROPER FORM(S)

<u>TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON</u>	<u>PERFORMANCE KNOWLEDGE</u>	<u>SAFETY - HAZARD</u>
Forms necessary for pending operations such forms as Journals (of a given type) Checks Invoices Payroll register	Read section(s) in machine's manual related to loading the machine Load the machine	Keep clothing, hair, etc., trim openings and exposed moving parts of the machine Results of unsafe performance-shock and injury
		<u>ERRORS</u>
	<u>DECISIONS</u>	Machine may not operate with no or wrong form Loss of time Errors in firm's books Errors in operations

ASK STATEMENT) LOAD THE MACHINE WITH PROPER FORM(S)

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	Use of computing devices or mechanical aids
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Manual

## CLEAR THE MACHINE OF ANY TOTALS, OR OTHER INFORMATION, NOT NEEDED ON THE CURRENT OPERATIONS

<u>(TASK STATEMENT)</u>	<u>TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON</u>	<u>PERFORMANCE KNOWLEDGE</u>	<u>SAFETY - HAZARD</u>
Machine manual	<p>Read section(s) in machine's manual on clearing the machine of totals, or other information not needed for current operations</p> <p>Clear the machine according to instructions in the manual</p>		
		<p><u>DECISIONS</u></p> <p>Decide if machine needs to be cleared</p> <p>Decide how to clear the machine</p> <p>Machine's manual calls for clearing the machine</p> <p><u>CUES</u></p> <p>Machine was not cleared at end of previous operations</p> <p>Machine's manual calls for clearing the machine</p> <p><u>ERRORS</u></p> <p>Errors in firm's books</p> <p>Loss of time</p> <p>Errors in operations</p>	

**ASK STATEMENT) CLEAR THE MACHINE OF ANY TOTALS, OR OTHER INFORMATION, NOT NEEDED FOR THE CURRENT OPERATION**

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	Use of computing devices or mechanical aids
<u>COMMUNICATIONS</u>	
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Manual
<u>SKILLS/CONCEPTS</u>	
	Comprehension, detail/inference, description of mechanism, terminology, definition

## (TASK STATEMENT) PLACE PROPER DATE IN THE MACHINE

TOOLS, EQUIPMENT, MATERIALS,  
OBJECTS ACTED UPON

Whatever device, if any, prescribed by the manufacturer to change the date and/or in-put other necessary information

## PERFORMANCE KNOWLEDGE

Set whatever dials, etc., that need to be adjusted to place the correct date and/or other necessary in-put into the operations

## SAFETY - HAZARD

Set whatever dials, etc., that need to be adjusted to place the correct date and/or other necessary in-put into the operations

## DECISION

Decide if any changes in dates, etc. need to be made  
Decide if changes are correct

## CUES

Wrong date, etc., is revealed to be in the machine's potential operations

## ERRORS

Loss of revenue  
Errors in operations  
Errors in firm's books  
Loss of time  
Legal problems

SCIENCE	MATH – NUMBER SYSTEMS
Behavioral Science (see index)	Use of computing devices or mechanical aids
COMMUNICATIONS	
PERFORMANCE MODES	<u>EXAMPLES</u>
Reading	Necessary in-put information
	<u>SKILLS/CONCEPTS</u>
	Comprehension, detail/inference, definition, terminology

VERIFY AND INSURE THAT THE OPERATIONAL MODE OF THE MACHINE IS CONSISTENT WITH CURRENT OPERATIONS

SAFETY - HAZARD	PERFORMANCE KNOWLEDGE	TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON
	<p>Verify type of operations to be performed</p> <p>Examine program(s) and/or operational mode(s) that are needed for the operations to be performed. Make sure these are used and others have been removed and/or erased</p> <p>Place appropriate program(s) and/or mode(s) in machine</p>	
	<p><u>CUES</u></p>	<p>Machine may not function</p> <p>Machine operations are confused and/or inaccurate</p>
	<p><u>DECISIONS</u></p>	<p>Decide which operations is to be performed</p> <p>Decide which program(s) and/or mode(s) are needed</p> <p>Decide if correct program(s) and/or mode(s) are in machine</p>
	<p><u>ERRORS</u></p>	<p>Lost revenue and time</p> <p>Firm's books are in error</p> <p>Machine may be damaged</p> <p>Firm's records may be damaged</p>

**TASK STATEMENT** VERIFY AND INSURE THAT THE OPERATIONAL MODE OF THE MACHINE IS CONSISTENT WITH CURRENT OPERATIONS

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	Math necessary to program a given machine Use of computing devices or mechanical aids
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading Viewing	Reading necessary to insure proper verification of program Examining evidence of proper program

## Duty E Operating the Bookkeeping-Machine

- 1 Read the section(s) of the machine's manual related to operating the machine
- 2 Select the proper record (for example: ledger) from the files ("can")
- 3 Place the machine into proper alignment(s)/sub-mode(s) to receive the ledger on other items
- 4 Insert the appropriate ledger (or other item) into the machine, usually in-put data from the ledger (or other items) by using the machine(s) keyboard
- 5 Select the proper source document necessary for a given operation
- 6 Depress proper keys on the machine's keyboard, according to the figures shown on the source document(s) and the operation to be performed
- 7 Activate the machine to function according to its mode(s) and/or sub-mode(s); or, allow the machine to function, processing the in-put data
- 8 Remove the processed ledger (or other item) from the machine
- 9 Return the processed ledger (or other item) to its proper place in the file ("can")
- 10 Place the source document aside in an appropriate place
- 11 Monitor all procedures and documents for errors; and, correct errors according to established procedures and policies
- 12 Correctly suspend operation of the machine when temporarily necessary
- 13 Total, or "clear," the machine when last posting, journalizing and/or other operation is completed
- 14 Verify total(s)-resulting from "clearing" the machine-with total(s) on the type of source document. Verify accuracy of posting, journalizing and/or other completed operations
- 15 Record all figures and totals necessary, as directed
- 16 Use, appropriately, the count made by the counter of items/postings
- 17 Bundle source documents by type
- 18 React to safety emergencies according to established procedures

## (TASK STATEMENT) READ THE SECTION(S) OF THE MACHINE'S MANUAL RELATED TO OPERATING THE MACHINE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Machine's manual	Read section(s) of machine's manual related to the operation of the machine	Damage to machine - "down time" Loss of machine Damage to and/or loss of records of firm Loss of job
		<p><u>DECISIONS</u></p> <p>Decide to read those related sections of the machine's manual</p> <p><u>CUES</u></p> <p>Needing to operate a machine whose manual has not been read</p> <p><u>ERRORS</u></p>

**TASK STATEMENT**      READ THE SECTION(S) OF THE MACHINE'S MANUAL RELATED TO OPERATING THE MACHINE

<u>SCIENCE</u>	<u>MATH – NUMBER SYSTEMS</u>
Behavioral Science (see index)	
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Reading sections of manual related to machine's operations
	Comprehension, detail/inference, description of mechanism, definition, terminology

(TASK STATEMENT) SELECT THE PROPER RECORD (FOR EXAMPLE: LEDGER) FROM THE FILE ("CAN")

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TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Ledgers and/or other items to be used in current operations	Select the proper ledger	
DECISIONS	CUES	ERRORS
Decide if proper ledger has been selected	The item is next in the file/can, etc. The source document is related to item selected	Errors in firm's books Errors in operations Loss of revenue Legal problems Public relations problem

ASK STATEMENT) SELECT THE PROPER RECORD (FOR EXAMPLE: LEDGER) FROM THE FILE (''CAN'')

SCIENCE	MATH – NUMBER SYSTEMS
Behavioral Science (see index)	Use of numbers without calculation-coding [maybe necessary to recognize various accounts numbers]
COMMUNICATIONS	<u>SKILLS/CONCEPTS</u> Comprehension, detail /inference, definition, terminology
<u>PERFORMANCE MODES</u> Reading	<u>EXAMPLES</u> To select proper ledger

## (TASK STATEMENT) PLACE THE MACHINE INTO PROPER ALIGNMENT(S) /SUB-MODE(S) TO RECEIVE THE LEDGER OR OTHER ITEMS

(TASK STATEMENT)	TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE
		SAFETY -- HAZARD
	<p>Activate the machine so as to place it in an alignment that will receive necessary forms for the pending operations</p>	<p><b>ERRORS</b></p> <p>Errors in machine's operations Errors in firm's books Loss of time Damage to forms</p>
		<p><b>CUES</b></p> <p>Ledger and/or other item, and/or source documents related to the current alignment of the machine</p> <p><b>DECISIONS</b></p> <p>Decide if machine must be placed into an alignment necessary to receive a ledger or other item</p>

task statement      place the machine into proper alignment(s) /sub-mode(s) to receive the ledger or other item

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	Use calculating devices or mechanical aids
COMMUNICATIONS	
PERFORMANCE MODES	<u>EXAMPLES</u>
Viewing	Machine
SKILLS/CONCEPTS	
	Visual analysis, detail/inference, logic, recognize symbols, codes and emblems

INSERT THE APPROPRIATE LEDGER (OR OTHER ITEM) INTO THE MACHINE, ANUALLY IN-PUT DATA FROM THE LEDGER  
(TASK STATEMENT)

(OR OTHER ITEMS) BY USING THE MACHINE'S KEYBOARD

(TASK STATEMENT)

TOOLS, EQUIPMENT, MATERIALS,  
OBJECTS ACTED UPON

PERFORMANCE KNOWLEDGE

Ledger and/or proper form to be inserted in machine prior to operations

Insert properly selected item into machine  
Dryness necessary and/or appropriate keys on the machine's keyboard(s) to in-put figures on the ledger and/or proper form

SAFETY - HAZARD

5-4

Keep clothing, hair etc., from openings and exposed moving parts of the machine  
Results of unsafe performance, injury and shock

DECISIONS

Decide where and how item is to be inserted  
Decide if item has been inserted properly

CUES

Machine reacts properly

ERRORS

Errors in firm's books  
Damage to records  
Error in operations  
Machine may not function

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INSERT THE APPROPRIATE LEDGER (OR OTHER ITEM) INTO THE MACHINE, ANUALLY IN-PUT DATA FROM THE LEDGER  
 (OR OTHER ITEM) BY USING THE MACHINE'S KEYBOARD

**WORK STATEMENT**

<b>SCIENCE</b>	<b>MATH - NUMBER SYSTEMS</b>
Behavioral Science (see index)	Ability to read numbers accurately so as to be able to in-put manually, those figures necessary for operations Use computing devices or mechanical aids
<b>COMMUNICATIONS</b>	
<b>PERFORMANCE MODES</b>	<b>EXAMPLES</b>
Reading	Machine's in-put mechanism

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(TASK STATEMENT) SELECT THE PROPER SOURCE DOCUMENT NECESSARY FOR A GIVEN OPERATION

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Source documents i.e., Payroll records Invoices Purchase orders Checks to be paid and/or deposits to be credited (banking)	Select from the source documents at hand a given source document for an operations	<b>ERRORS</b> Errors in firm's books Loss of revenue Misplaced records
	<b>DECISIONS</b> Decide if proper source document has been selected	<b>CUES</b> The type of operations to be performed related to the source document

(T, SK STATEMENT) SELECT THE PROPER SOURCE DOCUMENT NECESSARY FOR A GIVEN OPERATION

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	Use of numbers without calculation-coding [recognize various account numbers]
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Selecting proper source document

## DEPRESS PROPER KEYS ON THE MACHINE'S KEYBOARD, ACCORDING TO THE FIGURES SHOWN ON THE SOURCE DOCUMENT(S) AND THE OPERATION TO BE PERFORMED

## (TASK STATEMENT)

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Source document(s) Machine keyboard	Depress necessary and/or appropriate keys on the machine's keyboard(s) to in-put figures on source document(s)	ERRORS
DECISIONS	CUES	CUES

DEPRESS PROPER KEYS ON THE MACHINE'S KEYBOARD, ACCORDING TO THE FIGURES SHOWN ON THE SOURCE DOCUMENT(S) AND THE OPERATION TO BE PERFORMED

(TASK STATEMENT)

SCIENCE	MATH - NUMBER SYSTEMS	
Behavioral Science (see index)	<p>Ability to read numbers accurately so as to depress proper keys on machine to in-put information from source documents</p> <p>Use of numbers without calculations</p> <p>Use of computing devices and mechanical aids</p>	
COMMUNICATIONS		
Reading	<p>Machine's in-put mechanism</p>	<p>Comprehension, detail/inference, definition, terminology</p>

ACTIVATE THE MACHINE TO FUNCTION ACCORDING TO ITS MODE(S) AND/OR SUB-MODE(S); OR, ALLOW THE MACHINE TO FUNCTION, PROCESSING THE IN-PUT DATA

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD	GO
Machine	<p>Activate the machine Allow the machine to operate or function</p>	<p>Keep clothing, hair, etc., from openings and exposed moving parts of the machine Results of unsafe performance - injury</p>	<u>ERRORS</u>
			<p><u>CUES</u></p> <p>Machine is functioning properly in light of type of operations being performed</p> <p><u>DECISIONS</u></p> <p>Decide if machine is really to be activated Decide if machine is reacting properly to in-put</p>

ACTIVATE THE MACHINE TO FUNCTION ACCORDING TO ITS MODE(S) AND/OR SUB-MODES; OR, ALLOW THE MACHINE TO FUNCTION, PROCESSING THE IN-PUT DATA

<u>ASK STATEMENT</u>	<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>	<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
Behavioral Science (see index)				

## (TASK STATEMENT) REMOVE THE PROCESSED LEDGER (OR OTHER ITEM) FROM THE MACHINE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Ledger and/or proper form that is currently within the machine	Grasp and remove ejected, or partially ejected, ledger or proper form from the machine	<u>ERRORS</u>  Ledger and/or proper form may not be ejected properly Loss of time Damage to firm's records
		<u>CUES</u>  Machine pauses Machine stops Ledger and/or proper form is ejected, or partially ejected, from the machine  <u>DECISIONS</u>  Decide if machine has completed its use of, or need for, the ledger and/or proper form it has had within it

<u>task statement</u>	remove the processed ledger (or other item) from the machine
<u>science</u>	math - number systems
behavioral science (see index)	
<u>communications</u>	
<u>performance modes</u>	<p><u>examples</u></p> <p>Viewing Machine, ledger</p>
	<p><u>skills/concepts</u></p> <p>Visual analysis, logic, detail/inference</p>

## (TASK STATEMENT) RETURN THE PROCESSED LEDGER (OR OTHER ITEM) TO ITS PROPER PLACE IN THE FILE ("CAN")

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Processed ledger and/or proper form that has been removed from the machine	Place processed ledger and/or form into its correct place in the file	<u>ERRORS</u>
	<u>CUES</u>	<p>Item returned is related to items near its place in the file</p> <p>Decide if processed ledger and/or form has been returned correctly to its place in the file</p> <p>Loss of time Public relations problem</p>

SCIENCE	Behavioral Science (see index)	MATH → NUMBER SYSTEMS	
		COMMUNICATIONS	
		<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>

## (TASK STATEMENT) PLACE THE SOURCE DOCUMENT ASIDE IN AN APPROPRIATE PLACE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Source document	Place processed source document in appropriate place	<u>ERRORS</u>  Errors in firm's operation Loss of time
		<u>CUES</u>  All information has been used in the current operation
		<u>DECISIONS</u>  Decide if all necessary information on the given source document has been processed Decide where and in what order to place the item

**ASK STATEMENT**   PLACE THE SOURCE DOCUMENT ASIDE IN AN APPROPRIATE PLACE

<u>SCIENCE</u>	<u>MATH – NUMBER SYSTEMS</u>
Behavioral Science (see index)	
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Viewing	Source document
	Visual analysis, logic, detail/inference

MONITOR ALL PROCEDURES AND DOCUMENTS FOR ERRORS; AND, CORRECT ERRORS ACCORDING TO  
ESTABLISHED PROCEDURES AND POLICIES

(TASK STATEMENT)

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
	<p>Observe all procedures involved in processing</p> <p>Correct errors</p>	
DECISIONS	CUES	<p>Loss of time and revenue</p> <p>Legal problems</p> <p>Public relations problems</p> <p>Errors in firm's books</p>

<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<u>SKILLS/CONCEPTS</u>
Reading	Reading documents for errors	Comprehension, detail/inference, definition, terminology
Writing	Correcting errors	Penmanship, classification, spelling, description, clarity of expression, usage

(TASK STATEMENT) CORRECTLY SUSPEND OPERATION OF THE MACHINE WHEN TEMPORARILY NECESSARY

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Ruler (s) and/or other item (s) that may serve as appropriate markers	Turn off machine, if appropriate Leave proper marker (s) in source documents as reminder (s) as to where to resume operations	Bookkeeping machine must be turned off Results of unsafe performance - injury
		<p><u>CUES</u></p> <p>Work is interrupted Break time Short term problems, or considerations, demanding the operator's attention away from the machine</p> <p><u>DECISIONS</u></p> <p>Decide if operations are to be interrupted Decide when/how to mark place in work Decide if it is necessary to turn machine off, temporarily</p>

SCIENCE	Behavioral Science (see index)	MATH - NUMBER SYSTEMS	
		COMMUNICATIONS	

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZ'D 72
Machine's manual	<p>Read section(s) of machine's manual related to clearing the machine at end of operations</p> <p>Clear machine of last ledger and/or form that has been inserted for processing</p> <p>Activate the machine so as to cause it to total-out or clear itself of the results of operations</p>	<p><u>ERRORS</u></p> <p>Loss of revenue Loss of information Error in firm's book</p>
	<p><u>CUES</u></p> <p>Information from last source document, involved in current operations, has been used as in-put</p>	<p><u>DECISIONS</u></p> <p>Decide if operations have been completed</p>



(TASK STATEMENT)

VERIFY TOTAL(S) - RESULTING FROM "CLEARING", THE MACHINE - WITH TOTAL(S) ON THE TYPE OF SOURCE DOCUMENT. VERIFY ACCURACY OF POSTING, JOURNALIZING, AND/OR OTHER COMPLETED OPERATIONS

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Tapes that show totals of source documents being processed	Compare totals resulting from the clearing operation with totals available on source documents Seek help if figures cannot be balanced	74
		<u>ERRORS</u>
	<u>CUES</u>	<u>DECISIONS</u>

Errors in operations  
Errors in firm's books  
Loss of time

Figures for clearing are the same as those on tapes of source documents

Decide if clearing figures balance with totals of source document  
Decide if assistance is needed in balancing at the end of operation

VERIFY TOTALS - RESULTING FROM "CLEARING", THE MACHINE - WITH TOTALS ON THE TYPE OF SOURCE DOCUMENT. VERIFY ACCURACY OF POSTING, JOURNALIZING, AND/OR OTHER COMPLETED OPERATIONS

<u>TASK STATEMENT</u>	<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>	<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
		<p>Understand transpositions and their correction Perform fundamental operations Addition Subtraction Multiplication Division</p>		<p>Comprehension, detail/inference Penmanship, classification, logic</p>
	<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<p>Reading Writing</p>	

## (TASK STATEMENT) RECORD ALL FIGURES AND TOTALS NECESSARY, AS DIRECTED

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Pen and/or pencil Firm's policies and procedures on recording results of operations Forms necessary for reports	Read firm's policies and procedures related to task Place results of operations on report form Report to department	
		<p><u>ERRORS</u></p> <p>Errors in firm's books Loss of revenue Loss of time, by other departments Loss of job</p>

DECISIONS

Decide which figures and/or totals resulting from operations need to be recorded and/or reported, in light of firm's policies and procedures

CUES

Other departments need a result of operations  
Other operators are making reports

## SCIENCE

Behavioral Science (see index)

## MATH - NUMBER SYSTEMS

Capacity to record numerals correctly in and/or on correct report forms

## COMMUNICATIONS

## PERFORMANCE MODES

## EXAMPLES

Writing  
ReadingPlacing totals on reports  
Policies and procedures

## SKILLS/CONCEPTS

Penmanship, spelling, classification, description, reports-information, clarity of expression, logic  
Comprehension, logic, detail/inference, terminology

## (TASK STATEMENT) USE, APPROPRIATELY, THE COUNT MADE BY THE COUNTER OF ITEMS/POSTINGS

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Pen and pencils Forms necessary for report Firm's policies and procedures on recording results of item/posting count	Read firm's policies and procedures related to task Place necessary information in and/or on necessary reports	<u>ERRORS</u> Loss of time by other departments
	<u>DECISIONS</u> Decide which count information needs to be reported, in light of firm's policies <u>CUES</u> Other departments need the results of the count Other operators are making count report	

SCIENCE	Capacity to record numerals correctly in and/or report forms Behavioral Science (see index)	MATH - NUMBER SYSTEMS	<p><u>SKILLS/CONCEPTS</u></p> <p>Penmanship, spelling, classification, description, reports - information, clarity of expression, logic</p> <p>Comprehension, detail/inference, logic, terminology</p> <p><u>EXAMPLES</u></p> <p>Placing totals on reports</p> <p>Policies and procedures</p>
		<u>PERFORMANCE MODES</u>	<p>Writing</p> <p>Reading</p>

(TASK STATEMENT) BUNDLE SOURCE DOCUMENTS BY TYPE

TOOLS, EQUIPMENT, MATERIALS,  
OBJECTS ACTED UPON

Rubber bands  
Source documents in area of operation

PERFORMANCE KNOWLEDGE

Bundle and secure source documents no longer needed in operations, those ready for returning to files and/or other departments

SAFETY - HAZARD

Errors in firm's books  
Loss of revenue  
Misfiled records/source documents

ERRORS

CUES

All source documents needed for a given operation have been processed

DECISIONS

Decide if source documents are needed any longer at place of operations

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	
COMMUNICATIONS	
PERFORMANCE MODES	EXAMPLES
Reading	Separating source documents into bundles for return to files and/or delivered to other departments
SKILLS/CONCEPTS	Comprehension, detail/inference, Definition, terminology

## (TASK STATEMENT) REACT TO SAFETY EMERGENCIES ACCORDING TO ESTABLISHED PROCEDURES

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>See sections of machine's manual related to the task</p> <p>Firm's safety and emergency policies</p> <p>Equipment necessary and proper to meet peculiar safety and emergency needs of the firm, including proper alarms systems</p>	<p>Read sections of machine's manual related to task</p> <p>Read firm's policies related to task</p> <p>Follow, where possible, established procedures for handling safety emergencies</p> <p>Sound proper alarms</p>	<p>Safety rules established by the firm in light of its peculiar safety and emergency problems</p> <p>Use proper equipment to meet the peculiar problems in a given situation</p> <p>Sound proper alarms</p> <p>Results of unsafe performance</p> <p>Injuring, shock and/or death</p>
		<p><u>CUES</u></p> <p>Injury, shock and/or death to an operator</p> <p>Damage to machines and/or "down time",</p> <p>Loss of revenue, records, and building</p> <p>Loss of job</p>

**TASK STATEMENT** REACT TO SAFETY EMERGENCIES ACCORDING TO THE ESTABLISHED PROCEDURE

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	
<u>COMMUNICATIONS</u>	<u>SKILLS/CONCEPTS</u>
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Safety, policies
	Comprehension, detail/inference, definition, terminology

Duty F Closing the Machine and the Area After Operations

- 1 Close the machine
- 2 Remove processed source documents to their proper storage or file locations
- 3 Remove the files ("cans") of posted/processed records (for example: ledgers)  
to their proper storage locations

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<u>TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON</u>	<u>PERFORMANCE KNOWLEDGE</u>	<u>SAFETY - HAZARD</u>	
	Turn off machine Disconnect from power source Cover machine	Area of machine should be dry Unplug machine by holding wire, not plug Results of unsafe performance-- shock	
			<u>ERRORS</u>
			<u>CUES</u>
			<u>DECISIONS</u>

Decide if machine should be turned  
off and/or disconnected

Work is completed

Machine may generate unnecessary  
heat  
Damage to machine--"downtime",  
Loss of job

SCIENCE

Behavioral Science (see index)

MATH - NUMBER SYSTEMS

COMMUNICATIONS

SKILLS/CONCEPTS

EXAMPLES

PERFORMANCE MODES

## (TASK STATEMENT) REMOVE PROCESSED SOURCE DOCUMENTS TO THEIR PROPER STORAGE OR FILE LOCATIONS

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Firm's policies and procedures relating to processed material Processed source documents	Read firm's policies to task Processed materials such as journals, and/or other source documents must be placed in their file and/or storage	Loss of revenue and time in and/or by other departments Loss of records Errors in firm's books
Decide if processed materials such as journals, etc., are needed further Decide where items are to be delivered	DECISIONS CUES	ERRORS

SCIENCE

Behavioral Science (see index)

MATH - NUMBER SYSTEMSCOMMUNICATIONSSKILLS/CONCEPTSEXAMPLESPERFORMANCE MODES

(TASK STATEMENT)	TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
See firm's policies relating to posted (or processed) ledgers	Read firm's policies related to task Return processed (or posted) ledgers to their normal storage location		
		<p><u>DECISIONS</u></p> <p>Decide if processed ledgers are needed further</p> <p><u>CUES</u></p> <p>Processed ledgers are not needed for further processing</p> <p><u>ERRORS</u></p> <p>Loss of revenue and time and and/or by other departments</p>	

REMOVE THE FILES ("CANS") OF POSTED/PROCESSED RECORDS (FOR EXAMPLE: LEDGERS) TO THEIR  
PROPER STORAGE LOCATIONS

**TASK STATEMENT**

**SCIENCE**

Behavioral Science (see index)

**MATH – NUMBER SYSTEMS**

**COMMUNICATIONS**

**PERFORMANCE MODES**

**EXAMPLES**

**SKILLS/CONCEPTS**

**Duty G   Maintaining Files of Bookkeeping Related Records in Correct Order, with  
Accurate Balances**

- 1   File and secure all material according to firm's policies
- 2   Report any unusual-questionable and/or potentially illegal-items of  
information found in the files to at least two persons
- 3   Re-file, correctly, material found to have been misfiled
- 4   Run a trial balance on ledger (s) when required and/or advisable

## (TASK STATEMENT) FILE AND SECURE ALL MATERIAL ACCORDING TO FIRM'S POLICIES

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>File system common to the firm Firm's policies related to task as stated</p>	<p>Read firm's methods and/c- policies of filing material File items according to firm's methods and/or policies Secure items according to policies</p>	<p>ERRORS</p>
<p>File system common to the firm Firm's policies related to task as stated</p>	<p><u>CUES</u></p>	<p>Lost business material Errors in information generated by operations Files stolen, destroyed, tampered with</p> <p><u>DECISIONS</u></p> <p>Decide if item is to be filed Decide where item is to be filed Decide if item has been filed correctly Decide if there is another item to be filed Decide if firm's need for file, for the operation, is finished Determine where to place file Decide if files are safe.</p>

SCIENCE	<p>Behavioral Science (see index)</p> <p>For filing by a numerical system, ordering, indexing, and/or coding may be necessary</p>	MATH - NUMBER SYSTEMS
COMMUNICATIONS	<p><u>SKILLS/CONCEPTS</u></p> <p>Comprehension, detail inference, definition</p>	<p>Terminology/general vocabulary, appropriate dictation, enunciation, clarity of expression, logic, usage</p> <p>Auditory discrimination, concentration, logic, word definition</p> <p>Visual analysis, memory, describing, logic, detail and inference, color discrimination, recognition of symbols, codes</p>
PERFORMANCE MODES	<p><u>EXAMPLES</u></p> <p>Material type to be filed</p> <p>Asking advice on filing problems</p> <p>Speaking</p> <p>Listening</p> <p>Viewing</p>	<p>Answers to advice on filing</p> <p>Item to be filed</p>

REPORT ANY UNUSUAL-QUESTIONABLE AND/OR POTENTIALLY ILLEGAL-ITEMS OF INFORMATION FOUND IN  
THE FILES TO AT LEAST TWO PERSONS

(TASK STATEMENT)

(TASK STATEMENT)	TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Firm's policies on how to handle unusual and/or sensitive information	<p>Read firm's security policies (on handling and mishandling) for potentially sensitive information and materials</p> <p>Follow the firm's policies, report what may warrant reporting to at least two persons of authority</p>		
		<p><u>DECISIONS</u></p> <p>Decide if material or information needs to be reported</p> <p>Decide which persons should be informed</p> <p>Decide if information has been communicated to the proper persons</p> <p><u>CUES</u></p> <p>More than one record/ledger on a given account</p> <p>Items which reveal potential loss or compromise of the firm's sensitive/classified information</p> <p><u>ERRORS</u></p> <p>Conviction for a felony-public relations problems</p> <p>Loss of employment</p>	

SCIENCE	MATH - NUMBER SYSTEMS
Behavioral Science (see index)	
COMMUNICATIONS	
PERFORMANCE MODES	EXAMPLES
Listening	Instructions on sources of action to this task
Viewing	Does item in question warrant reporting
Speaking	Informing firm's management of unusual find
Reading	Firm's policies related to this task
Writing	Report on an unusual item found
SKILLS/CONCEPTS	
	Auditory discrimination, discriminate facts from non-facts, recognize opinions, word definition
	Visual analysis, memory, describing, logic, detail and inference, color discrimination, recognition of codes, symbols, and emblems
	Terminology/general vocabulary, logic, appropriate diction, implying, enunciation, clarity of expression, usage
	Comprehension, detail/inference, definition, terminology
	Penmanship, spelling, memo format, description, reports-information, clarity of expression, logic, usage

## (TASK STATEMENT) RE-FILE, CORRECTLY, MATERIAL FOUND TO HAVE BEEN MISFILED

<u>TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON</u>	<u>PERFORMANCE KNOWLEDGE</u>  File system common to the firm	<u>SAFETY - HAZARD</u>  Read firm's methods and/or policies of filing material Locate misfiled item Locate correct place in file for the item Place misfiled item in correct position in file
		<u>DECISIONS</u>  Item that may be misfiled does not resemble other items near its location (size, shape, color, etc.)  <u>CUES</u>  Decide if item has been misfiled Decide correct place for item in filing system Decide if item has been correctly re-filed
		<u>ERRORS</u>  Lost business material Errors in information generated by operations

**ASK STATEMENT) RE-FILE, CORRECTLY, MATERIAL FOUND TO HAVE BEEN MISFILED**

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	For filing by a numerical system, ordering, indexing and/or coding may be necessary
COMMUNICATIONS	
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>
Reading	Determining type of source documents sorted
Viewing	Hand sorting checks (banking) by color, shape, size as well as detail
	File all material according to policy

(TASK STATEMENT) RUN A TRIAL BALANCE ON LEDGER(S) WHEN REQUIRED AND/OR ADVISABLE

TOOLS, EQUIPMENT, MATERIALS,  
OBJECTS ACTED UPON

PERFORMANCE KNOWLEDGE

SAFETY - HAZARD

Adding listing machine or calculator  
Firm's policies related to task

Read firm's policies related to task  
Acquire ledgers that are to have a trial balance made  
Add ledgers  
Compare the total of the trial balance with the total of the control account  
If totals do not balance, run the trial balance a second time; compare the two tapes and locate the error  
Correct the error  
Report the balancing, if necessary and/or advisable

Determine if trial balance is to be run  
Determine if trial balance equals control account  
Determine nature of error, if any  
Determine how to correct error  
Determine if new trial balance is necessary  
Determine if comparison of trial balances are in agreement  
Determine if error has been corrected

CLUES

Control account and trial balance are not in agreement

ERRORS

Firm's books will be out of balance  
Error in trial balance may compound errors later in accounting cycle

**ASK STATEMENT**      RUN A TRIAL BALANCE ON LEDGER(S) WHEN REQUIRED AND/OR ADVISABLE

**SCIENCE**

Behavioral Science (see index)

**MATH — NUMBER SYSTEMS**

**Fundamental Operations**

Addition

Subtraction

Division (location of transpositions)

Use of computing devices and mechanical aids

**COMMUNICATIONS**

**PERFORMANCE MODES**

**SKILLS/CONCEPTS**

Speaking

Terminology/general vocabulary,  
appropriate diction, enunciation,  
clarity of expression, logic,  
usage

Comprehension, detail inference,  
Penmanship, logic, clarity of  
expression

Finding errors

Auditory discrimination, discriminate  
facts from non-facts, concentration

logic

Visual analysis, memory, logic,  
detail and inference

**EXAMPLES**

**SKILLS/CONCEPTS**

Getting assistance with task

Terminology/general vocabulary,  
appropriate diction, enunciation,  
clarity of expression, logic,  
usage

Comprehension, detail inference,  
Penmanship, logic, clarity of  
expression

Finding errors

Auditory discrimination, discriminate  
facts from non-facts, concentration

logic

Visual analysis, memory, logic,  
detail and inference

Duty H    Operating Various Related Office Machines

- 1    Operate a "10 key" adding-listing machine and/or calculator
- 2    Operate a "full key" adding-listing machine
- 3    Operate an alphabetic (and/or numerical) sorter
- 4    Operate a telephone

## (TASK STATEMENT) OPERATE A "10 KEY" ADDING-LISTING MACHINE AND/OR CALCULATOR

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
10 key adding-listing machine and/or calculator Manuals for given machines	Read manuals for machines Follow directions given in manuals Practice with the machine(s)	<u>ERRORS</u> Loss of time and revenue Damage to machine Errors in firm's books
	<u>DECISIONS</u> Decide if machine's operations are understood	<u>CUES</u> New machines are often not understood completely as to what operations may be performed on/by it

**TASK STATEMENT**) OPERATE A "10 KEY" ADDING-LISTING MACHINE AND/OR CALCULATOR

**SCIENCE**

Behavioral Science (see index)

**SCIENCE**

Ability to **read** numbers correctly

Use of computing devices and mechanical aids

**MATH - NUMBER SYSTEMS**

Ability to **read** numbers correctly

Use of computing devices and mechanical aids

**SKILLS/CONCEPTS**

**COMMUNICATIONS**

**EXAMPLES**

Running 10-key adding machine

Material to be added

The manual of a new calculator

**PERFORMANCE MODES**

Touching

Viewing

Reading

Visual analysis, memory, logic, recognition of symbols, codes, and emblems

Comprehension, detail inference, description of mechanism, definition, terminology

## (TASK STATEMENT) OPERATE A "FULL KEY" ADDING-LISTING MACHINE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Full key adding-listing machine Manual(s) for a given machine(s)	Read manuals for machines Follow directions in manuals Practice with the machine(s)	
		<u>CUES</u> New machines operations are not understood completely as to what operations may be performed on/by it

DECISIONS

Decide if machine(s) operations are  
understood

ERRORS

Loss of time and revenue  
Damage to machine  
Errors in firm's books

SCIENCE	<p>Ability to read numbers correctly Use of computing devices and mechanical aids</p> <p>Behavioral Science (see index)</p>												
MATH - NUMBER SYSTEMS	<p>Ability to read numbers correctly Use of computing devices and mechanical aids</p> <p>COMMUNICATIONS</p> <table border="1"> <tr> <td data-bbox="915 210 967 1912"><u>PERFORMANCE MODES</u></td> <td data-bbox="967 210 1018 1912"><u>EXAMPLES</u></td> <td data-bbox="1018 210 1070 1912"><u>SKILLS/CONCEPTS</u></td> </tr> <tr> <td data-bbox="967 210 1018 1912">Touching</td> <td data-bbox="1018 210 1070 1912">Run a full key adding machine</td> <td data-bbox="1070 210 1149 1912">Visual analysis, memory, logic, recognition of symbols, codes, and emblems</td> </tr> <tr> <td data-bbox="1018 210 1070 1912">Viewing</td> <td data-bbox="1070 210 1149 1912">Material to be added</td> <td data-bbox="1149 210 1277 1912">Comprehension, detail/inference, description of mechanism, definition, terminology</td> </tr> <tr> <td data-bbox="1070 210 1149 1912">Reading</td> <td data-bbox="1149 210 1277 1912">The manual of a new calculator</td> <td data-bbox="1277 210 1409 1912"></td> </tr> </table>	<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<u>SKILLS/CONCEPTS</u>	Touching	Run a full key adding machine	Visual analysis, memory, logic, recognition of symbols, codes, and emblems	Viewing	Material to be added	Comprehension, detail/inference, description of mechanism, definition, terminology	Reading	The manual of a new calculator	
<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<u>SKILLS/CONCEPTS</u>											
Touching	Run a full key adding machine	Visual analysis, memory, logic, recognition of symbols, codes, and emblems											
Viewing	Material to be added	Comprehension, detail/inference, description of mechanism, definition, terminology											
Reading	The manual of a new calculator												

## (TASK STATEMENT) OPERATE AN ALPHABETIC (AND/OR NUMERICAL) SORTER

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
<p>Alphabetic (and/or numerical) sorter Materials to be sorted alphabetically and/or numerically</p>	<p>Place sorter on appropriate work surface such as a table From the material to be sorted take item by item and place each within appropriate tabs on the sorter</p>	<p><u>CUES</u></p> <p>Materials are not in the order necessary for processing at the bookkeeping machine</p>
<p><u>DECISIONS</u></p> <p>Decide behind which tab a given item is to be sorted</p>	<p><u>ERRORS</u></p> <p>Loss of revenue-loss of time Error in firm's books</p>	

(TASK STATEMENT) OPERATE AN ALPHABETIC (AND/OR NUMERICAL) SORTER

<u>SCIENCE</u>	<u>MATH - NUMBER SYSTEMS</u>
Behavioral Science (see index)	

COMMUNICATIONS

<u>PERFORMANCE MODES</u>	<u>EXAMPLES</u>	<u>SKILLS/CONCEPTS</u>
Reading	Items to be sorted alphabetically and/or numerically	Comprehension, detail inference, definition, terminology

● (TASK STATEMENT) OPERATE A TELEPHONE

TOOLS, EQUIPMENT, MATERIALS, OBJECTS ACTED UPON	PERFORMANCE KNOWLEDGE	SAFETY - HAZARD
Telephone Telephone book Various educational materials available from the phone company and/or the firm	Read educational material available from firm and/or telephone company Apply understandings gained Ask questions of experienced persons	
		<u>ERRORS</u>
		<u>CUES</u>

Decide if telephone is to be more  
effectively and efficiently used

Loss of revenue-loss of time  
Errors in firm's books  
Legal problems  
Public relations problems

TASK STATEMENT	OPERATE A TELEPHONE
SCIENCE	MATH – NUMBER SYSTEMS
Behavioral Science (see index)	Ability to recognize and dial phone numbers
COMMUNICATIONS	
PERFORMANCE MODES	EXAMPLES
Reading	Material related and necessary to operating a telephone more effectively and efficiently
Speaking	To person on telephone
SKILLS/CONCEPTS	
	Comprehension, detail/inference, description of mechanism, definition, terminology
	Terminology/general vocabulary, appropriate diction, implying, enunciation, clarity of expression usage

## INDEX

### Attributes of maximum functioning capacity

Conscious awareness of the need for a balance (both mental and physical) between tension and relaxation. Relates to:

1. comfort
2. caution
3. safety
4. physical, emotional, and intellectual health

Conscious awareness of physical expressions basic to peak physical performance:

1. body rhythm
2. breathing coordinated with body movement
3. body balance and posture
4. movement from tension to relaxation and vice versa

Conscious awareness of qualities basic to optimal mental performance:

1. attention
2. observation
3. concentration
4. mental alertness
5. mental quietude
6. mental clarity
7. organization